

# College of Arts & Sciences

## B.S. Mathematics

### Secondary-Level Teachers Certification (Grades 8-12)

### Mathematics and Physics

### 2012-2013 Texas Common Course Numbering System Transfer Guide

The College of Arts and Sciences encourages students to explore teaching at the secondary level as a career option. Students seeking secondary teacher certification should contact the Teach North Texas Program in the College of Arts and Sciences.

#### Courses Recommended for Transfer

##### UNT Core: English Composition & Rhetoric

ENGL 1301; and ENGL 1302 or 2311

*ENGL 2311 is recommended.*

A grade of 'C' or better is required on courses applied toward this requirement.

##### UNT Core: Mathematics

This requirement will be met by fulfilling B.S. Mathematics major requirements (see next column).

##### UNT Core: Natural Science

This requirement will be met by fulfilling B.S. Mathematics laboratory science requirement (see next column).

##### UNT Core: U.S. History

Two courses chosen from: HIST 1301, 1302, 2301

##### UNT Core: Political Science

Two courses chosen from one of the following combinations:

- GOVT 2301 and 2302
- GOVT 2301 and 2305
- GOVT 2305 and 2306
- GOVT 2301 and 2306
- GOVT 2302 and 2306

##### UNT Core: Visual & Performing Arts

One course chosen from: ARTS 1301, 1303, or 1304; DRAM 1310; MUSI 1306 or 1307; SPCH 2341

##### UNT Core: Humanities

This requirement will be met by fulfilling the Teach North Texas Program requirement (next page).

##### UNT Core: Social & Behavioral Sciences

One course chosen from: ANTH 2346 or 2351; COMM 1307; CRIJ 1301; ECON 2301 or 2302; HUMA 2323; PSYC 2301; SOCI 1301; SPCH 1318; TECA 1354

##### UNT Core: Discovery

This requirement will be met by fulfilling the B.A. Mathematics major requirement (see below).

##### UNT Core: Capstone

This requirement will be met by fulfilling teacher certification requirements.

##### B.S. Mathematics: Laboratory Sciences

Physics Emphasis

- PHYS 2425 or 2125/2325
- PHYS 2426 or 2126/2326

*Courses listed above are TCCNS options and do not include all courses required for the UNT Mathematics major.*

##### B.S. Mathematics: Foreign Language

Students may complete either of two options to satisfy the College of Arts and Sciences foreign language requirement:

**Option I:** Proficiency in a foreign language equivalent to 1312 or 1412 or 1512. Students intending to pursue a graduate degree in mathematics are encouraged to study French, German or Russian.

**Option II:** Complete 6 hours of technical writing courses from the following: ENGL 2311 and additional upper level options at UNT.

##### B.S. Mathematics: Major Requirements

- MATH 2313 or 2413 or 2513
- MATH 2314 or 2414
- MATH 2315 or 2416
- MATH 2318 or 2418

*Courses listed above are TCCNS options and do not include all courses required for the UNT Mathematics major.*

Students must achieve a grade point average of at least 2.0 in all mathematics courses numbered 3350 and above.

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#### B.S. Mathematics: Other Course Requirements

- COSC 1315 or 1415, or COSC 1336 or 1436

Computer Programming: COSC 1315 or COSC 1336 is required. Students taking mathematics courses at the 2000-level or above are expected to be competent in computer programming, using languages such as BASIC, C, C++, Fortran, PASCAL or Java. Students are encouraged to complete the programming requirement during their freshman or sophomore year. Students who have acquired a solid programming competency in a non-academic setting, such as through work experience, may demonstrate their programming competency by passing a departmental exam in place of the COSC 1315 or 1415; or COSC 1336 or 1436 course requirement.

#### Teach North Texas Minor requirements:

A minor in mathematics and science secondary teaching, administered by Teach North Texas, is required.

A 2.5 GPA is required on all courses counting toward the Teach North Texas Minor, see current UNT Undergraduate Catalog for all minor requirements.

PHIL 2600, offered only at UNT, will fulfill both the Humanities core and the Teach North Texas requirements.

#### Teacher Certification Information

To be certified to teach in the State of Texas, the student must successfully pass the following exams.

Exam #1 TExES: Pedagogy & Professional Responsibilities (EC-12)

Exam #2 TExES: Mathematics and Physics (8-12)

Additional requirements for Teacher Certification in Mathematics include a 2.5 overall GPA (including all transferred courses), a 2.5 UNT GPA and a 2.5 major GPA.

#### Special Notes

##### Hours Required and General/College Requirements:

A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the "General University Requirements" section of the UNT catalog and the College of Arts and Sciences requirements.

##### UNT Core Curriculum/Transfer of Core Curriculum:

UNT complies with the mandates of the 1997 Texas Legislature regarding requirements for state-assisted institutions. Students who successfully complete the common core curriculum (in whole or in part) at a Texas state-assisted institution of higher education are eligible to transfer as "core complete" for those categories in the UNT University Core Curriculum.

Individual academic programs may require courses contained in parts of the University Core Curriculum. Students who wish to take courses that will fulfill both core and major/program requirements simultaneously should check with academic advisors for assistance in selecting core courses.

**Choice of Catalog:** Any student transferring directly from a Texas public community college to UNT shall have the same choice of catalog designating degree requirements as the student would have had if the dates of attendance at the university had been the same as the dates of attendance at the community college.

The College of Arts & Sciences required curriculum and policies are located in the [Undergraduate Catalog 2012-2013](#).

For additional program and contact information see the College of Arts and Sciences Student Advising website:  
[www.cas.unt.edu/advising](http://www.cas.unt.edu/advising)

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This four-year plan provides a model for on-time completion of this UNT program using as many TCCNS courses as possible. The four-year plan also shows the first point when no TCCNS options are available for this program. See the current [Undergraduate Catalog](#) for course prerequisites. Course availability at UNT is subject to change, and the plan shown below may change based on updates to UNT's course offerings.

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
FRESHMAN	ENGL 1310 or 1313	ENGL 1301	MATH 2100	None
	MATH 1710	MATH 2313 or 2413 or 2513	TECM 2700	ENGL 2311
	UNT Core: Political Science	See list of approved courses	MATH 1720	MATH 2314 OR 2414
	CSCE 1020 or CSCE 1030	COSC 1315 or 1415 or COSC 1336 or 1436	UNT Core: Political Science	See list of approved courses
	TNTX 1100*	None	TNTX 1200* PHYS 1710/1730	None PHYS 2425 or 2125/2325
<b>* Students must be admitted to the Teach North Texas Program prior to enrolling in certain Education courses.</b>				

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SOPHOMORE	EDSE 3500*	None	EDSE 4000*	None
	Foreign Language 1020 or advanced technical writing	Foreign Language 1312 or 1412 or 1512	MATH 3000	
	MATH 2700	MATH 2318 or 2418	MATH 3680	Consult UNT Advisor
	MATH 2730	MATH 2315 or 2415	Elective	
	PHYS 2220/2240	PHYS 2426 or 2326/2126	UNT Core: Visual & Performing Arts	

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
JUNIOR	PHYS 3010/3030	None	MATH 4050	None
	MATH 3510 or 3610		MATH 4060	
	MATH algebra (advanced)		PHIL 2600	
	UNT Core: U.S. History	See list of approved courses	UNT Core: U.S. History	See list of approved courses
	UNT Core: Social & Behavioral Science	See list of approved courses	Elective	Consult UNT Advisor

YEAR	FALL SEMESTER		SPRING SEMESTER	
	UNT Requirement	TCCNS Option	UNT Requirement	TCCNS Option
SENIOR	EDSE 4500*	None	EDSE 4608* Student Teaching)	None
	MATH Elective (3350 or higher)		EDSE 4618* (Student Teaching)	
	MATH Elective (3350 or higher)			
	MATH Elective (3350 or higher)		EDSE 4628*	
	PHYS 4700		MATH analysis	
	Elective	Consult UNT Advisor		